CIVIL AIM CONSULTANTS & ENGINEERS

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/SN/W No.12/2022-

Date 04.07.2022

TEST REPORT OF PHYSICAL PROPERTIES OF STAINLESS STEEL

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Agency **: Sri Shivananda N Contractor Bengaluru**

Name of Work :- Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

SS Dia/Length: 65mm

Reference to BIS codes: IS 6911:1992

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: 04.07.2022

Tensile Test:

Nominal size (dia in mm)	65mm	Limits as Per IS 6911 :1992
0.20 % proof stress/ yield stress (N/mm^2)	268	200 Min
Tensile strength (N/mm^2)	452	400 Min
Elongation, percent in Min in 50mm	43	40 Min

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Authorised Signatory

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ಜಿಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date 04.07.2022

TEST REPORT OF PHYSICAL PROPERTIES OF STAINLESS STEEL

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Agency **: Sri Shivananda N Contractor Bengaluru**

Name of work: Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

SS Dia/Length: 60*45cm

Reference to BIS codes: IS 6911:1992

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: **04.07.2022**

Tensile Test:

Nominal size (dia in mm)	60*45cm	Limits as Per IS 6911 :1992
0.20 % proof stress/ yield stress (N/mm^2)	237	200 Min
Tensile strength (N/mm^2)	421	400 Min
Elongation, percent in Min in 50mm	41	40 Min

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date 04.07.2022

TEST REPORT OF PHYSICAL PROPERTIES OF STAINLESS STEEL

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Agency **: Sri Shivananda N Contractor Bengaluru**

Name of Work : Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

SS Dia/Length: 60*23cm

Reference to BIS codes: IS 6911:1992

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test:04.07.2022

Tensile Test:

Nominal size (dia in mm)	60*23cm	Limits as Per IS 6911 :1992
0.20 % proof stress/ yield stress (N/mm^2)	228	200 Min
Tensile strength (N/mm^2)	438	400 Min
Elongation, percent in Min in 50mm	45	40 Min

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date 04.07.2022

TEST REPORT OF PHYSICAL PROPERTIES OF STAINLESS STEEL

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Agency : **Sri Shivananda N Contractor Bengaluru**

Name of Work : Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

SS Dia/Length: 25*25mm

Reference to BIS codes: IS 6911:1992

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test:04.07.2022

Tensile Test:

Nominal size (dia in mm)	25*25mm	Limits as Per IS 6911 :1992
0.20 % proof stress/ yield stress (N/mm^2)	241	200 Min
Tensile strength (N/mm^2)	429	400 Min
Elongation, percent in Min in 50mm	42	40 Min

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date: 09.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Name of the work :- Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

Agency **:- Sri Shivananda N Contractor Bengaluru**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	09.07.2022	8.165	268.9	11.95
2	02.07.2022	09.07.2022	8.021	276.1	12.27
3	02.07.2022	09.07.2022	8.174	280.1	12.45

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date: 30.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Name of the work :- Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

Agency **:- Sri Shivananda N Contractor Bengaluru**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	30.07.2022	8.154	386.9	17.20
2	02.07.2022	30.07.2022	8.066	390.1	17.34
3	02.07.2022	30.07.2022	8.098	382.1	16.98

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date: 09.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Name of the work :- Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

Agency **:- Sri Shivananda N Contractor Bengaluru**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	09.07.2022	8.132	269.9	12.00
2	02.07.2022	09.07.2022	8.052	280.1	12.45
3	02.07.2022	09.07.2022	8.074	276.4	12.28

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date: 30.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Name of the work :- Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

Agency **:- Sri Shivananda N Contractor Bengaluru**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	30.07.2022	8.214	390.1	17.34
2	02.07.2022	30.07.2022	8.075	376.9	16.75
3	02.07.2022	30.07.2022	8.032	390.1	17.34

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date: 09.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Name of the work :- Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

Agency **:- Sri Shivananda N Contractor Bengaluru**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	09.07.2022	8.052	265.5	11.80
2	02.07.2022	09.07.2022	8.166	281.1	12.49
3	02.07.2022	09.07.2022	8.098	249.9	11.11

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date: 30.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Assistant Executive Engineer Shettyhalli Sub Division BBMP Bengaluru**

Name of the work :- Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

Agency **:- Sri Shivananda N Contractor Bengaluru**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	30.07.2022	8.202	390.1	17.34
2	02.07.2022	30.07.2022	8.145	389.9	17.33
3	02.07.2022	30.07.2022	8.036	391.7	17.41

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QC ABSTRACT

Nameof Work: Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	Slab (100mm)	110.16 Sqm	1	1	Concrete Core Compressive Strength	-
2	Slab (250mm)	18.00 Sqm	1	1	Concrete Core Compressive Strength	

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Job No.: CACE/BBMP/SN/W No.12/2022-2023 Date: 04.07.2022

TEST REPORT ON CEMENT

Client :- **Assistant Executive Engineer** Shettyhalli Sub Division BBMP Bengaluru

Agency :- **Sri Shivananda N** Contractor Bengaluru

Name of Work :- Repairing work Range Office Building, Removal of Debries and Providing New Precast RCC Covering Slabs Desiliting of Drains in Ward No.12 Shettyhalli

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : June - 2022

Date of Testing 01.07.2022 to 04.07.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	128 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	339 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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